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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,988	01/25/2002	Paul A. Moore	PZ032P1C3	8271

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HUMAN GENOME SCIENCES INC  
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EXAMINER
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CARLSON, KAREN C

ART UNIT	PAPER NUMBER
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1653

DATE MAILED: 03/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/054,988	MOORE ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Karen Cochran Carlson, Ph.D.	1653	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-24 are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____.  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____.   | 6) <input type="checkbox"/> Other: ____.                                    |

From Table 1 at page 162 of the specification, SEQ ID NO: Y is defined as SEQ ID NOs: 67-122.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

1-55. Claims 11, 12, 16, and 23, drawn to polypeptide having SEQ ID NO: 67-122, respectively, classified in class 530, subclass 350.

55-110. Claims 1-10, 14, 15, and 21, drawn to polynucleotide encoding polypeptide having SEQ ID NO: 67-122, respectively, classified in class 536, subclass 23.1.

111-165. Claim 13, drawn to antibody against polypeptide having SEQ ID NO: 67-122, respectively, classified in class 530, subclass 387.1.

166-220. Claim 17, drawn to a method for preventing a medical condition by administering the polypeptide having SEQ ID NO: 67-122, respectively, classified in class 514, subclass 2.

221-275. Claims 17, drawn to a method for treating or ameliorating a medical condition by administering the polypeptide having SEQ ID NO: 67-122, respectively, classified in class 514, subclass 2.

276-330. Claim 18, drawn to a method for diagnosing pathology or susceptibility to pathology via nucleic acid encoding polypeptide having SEQ ID NO: 67-122, respectively, classified in class 435, subclass 6.

331-385. Claim 19, drawn to a method for diagnosing pathology or susceptibility to pathology via polypeptide having SEQ ID NO: 67-122, respectively, classified in class 435, subclass 7.1.

386-440. Claim 20, drawn to method for identifying a binding partner for polypeptide having SEQ ID NO: 67-122, respectively, classified in class 435, subclass 7.1.

441-495.Claim 22, drawn to a method for identifying activity via expression of nucleic acid encoding polypeptide having SEQ ID NO: 67-122, respectively, classified in class 435, subclass 69.1.

496-550.Claim 24, drawn to a method for preventing a medical condition by administering the nucleic acid encoding polypeptide having SEQ ID NO: 67-122, respectively, classified in class 514, subclass 2.

551-605.Claims 24, drawn to a method for treating or ameliorating a medical condition by administering the nucleic acid encoding polypeptide having SEQ ID NO: 67-122, respectively, classified in class 514, subclass 2.

The inventions are distinct, each from the other because of the following reasons:

The nucleic acids of Invention 56-110 are related to the protein of Inventions 1-55, respectively, by virtue of encoding same. The DNA molecule has utility for the recombinant production of the protein in a host cell, as recited in the Claims of Invention I. Although the DNA molecule and protein are related since the DNA encodes the specifically claimed protein, they are distinct inventions because the protein product can be made by another and materially different process, such as by synthetic peptide synthesis or purification from the natural source. Further, the DNA may be used for processes other than the production of the protein, such as nucleic acid hybridization assay.

The proteins of Invention 56-110 are related to the antibodies of Invention 111-165, respectively, by virtue of being the cognate antigen, necessary for the production of antibodies. Although the protein and antibody are related due to the necessary steric complementarity of the two, they are distinct Inventions because the protein can be used in another and materially

different process from the use for the production of the antibody, such as in a pharmaceutical composition in its own right, or to assay or purify the natural ligand of the protein (if the protein is itself a receptor), or in assays for the identification of agonists or antagonists of the receptor protein.

The nucleic acid of Invention 1-55 and the antibody of Invention 111-165, respectively, are related by virtue of the protein that is encoded by the nucleic acid and necessary for the production of the antibody. However, the nucleic acid itself is not necessary for antibody production and both are wholly different compounds having different compositions and functions. Therefore, these Inventions are distinct.

Invention 56-110 and Inventions 166-220, respectively, Inventions 221-275, respectively, Inventions 331-385, respectively, and Inventions 386-440, respectively, are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used in a materially different process such as in any one of the methods Inventions 166-220, respectively, Inventions 221-275, respectively, Inventions 331-385, respectively, and Inventions 386-440, respectively.

The product of Inventions 55-110 and Inventions 111-165 are not used in the methods of Inventions 276-230, 441-605. Therefore, Inventions 55-165 are patentably distinct from Inventions 276-230 and 441-605.

Invention 1-55 and Inventions 276-330, respectively, Inventions 441-495, respectively, Inventions 496-550, respectively, and Inventions 551-605, respectively, are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another

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materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used in a materially different process such as in any one of the methods of Inventions 276-330, respectively, Inventions 441-495, respectively, Inventions 496-550, respectively, and Inventions 551-605, respectively.

The product of Inventions 1-55 and 111-165 are not used in the methods of Inventions 166-220, Inventions 221-275, Inventions 331-385, or Inventions 386-440. Therefore, Inventions 1-55 and 111-165 are patentably distinct from Inventions 166-220, Inventions 221-275, Inventions 331-385, and Inventions 386-440.

The products of Inventions 1-55, 56-110, and 111-165 differ in structure and in function and are therefore patentably distinct one from the other.

The methods of Inventions 166-605 require different products and steps and have different endpoints. Therefore, Inventions 166-605 are patentably distinct.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. **Process claims that depend from or otherwise include all the limitations of the patentable product** will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and

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Process Claims in light of *In re Ochiai*, *In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

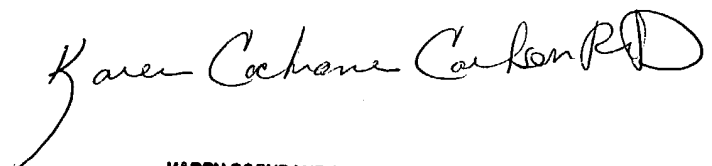
Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen Cochrane Carlson, Ph.D. whose telephone number is 571-272-0946. The examiner can normally be reached on 7:00 AM - 4:00 PM, off alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Christopher Low can be reached on 571-272-0951. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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KAREN COCHRANE CARLSON, PH.D.  
PRIMARY EXAMINER